

## STAPLE AND ANVIL ANASTOMOSIS SYSTEM

### Abstract of the Disclosure

The present invention relates to new and useful apparatus, systems and methods for providing an effective tool for intraluminally directed vascular anastomosis of a graft vessel to a receiving blood vessel that is performed according to a minimally invasive procedure. The intraluminally directed vascular anastomosis does not require the interruption of blood flow in the receiving blood vessel and it is versatile enough to suitably combine a variety of cutting, welding, soldering, sealing, and joining techniques. The intraluminally directed anvil apparatus comprises an anvil and a wire used for signaling the optimal anastomosis site; this signaling can be performed when the initial exploration is performed. An anastomosis device is used in conjunction with the intraluminally directed anvil apparatus for opening the anastomosis fenestra and joining the anastomosed structures.